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CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

REPORT

CD NO.

COUNTRY East Germany

DATE DISTR. 4 October 1954

SUBJECT Transistor Development at VEB Werk fuer Bauelemente
der Nachrichtentechnik "Carl von Ossietzky
(Dralowidwerk), Teltow

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INFO.SUPPLEMENT TO
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1. Transistor development at VEB Werk fuer Bauelemente der Nachrichtentechnik
"Carl von Ossietzky" (former Dralowid), Teltow, under the direction of
Dr. Matthias Falter had not yet been completed by August 1954. The samples
developed had not satisfied all requirements, particularly with respect to:

a. Interchangeability, i.e. production of samples with exactly the same
characteristics;

b. Output;

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c. Temperature constancy;

d. Frequency independence;

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e. Voltage amplification.

2. None of the points mentioned had been solved satisfactorily; production of
transistors had therefore not yet started. Dr. Falter, however, expected
that the development would reach the production stage in the first quarter
of 1955. According to plans, the production then was to be 100 transistors
per month. The following are the characteristics of the transistors to be
produced:

Output	10 mW
Limiting frequency (Grenzfrequenz)	3 MHz
Input resistance	300 Ohm
Output resistance (maximum)	10 kilo-Ohm
Collector voltage (U _k)	minus 22 V
Collector current (I _k)	1.5 to 5 mA
Emitter voltage (U _e)	0.3 V (average)

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3. Shortly before August 1954, the enterprise completed the development of a
number of transistors which were given fabrication number 113. These were
experimental samples which were tested in the enterprise. The following
results were obtained:

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